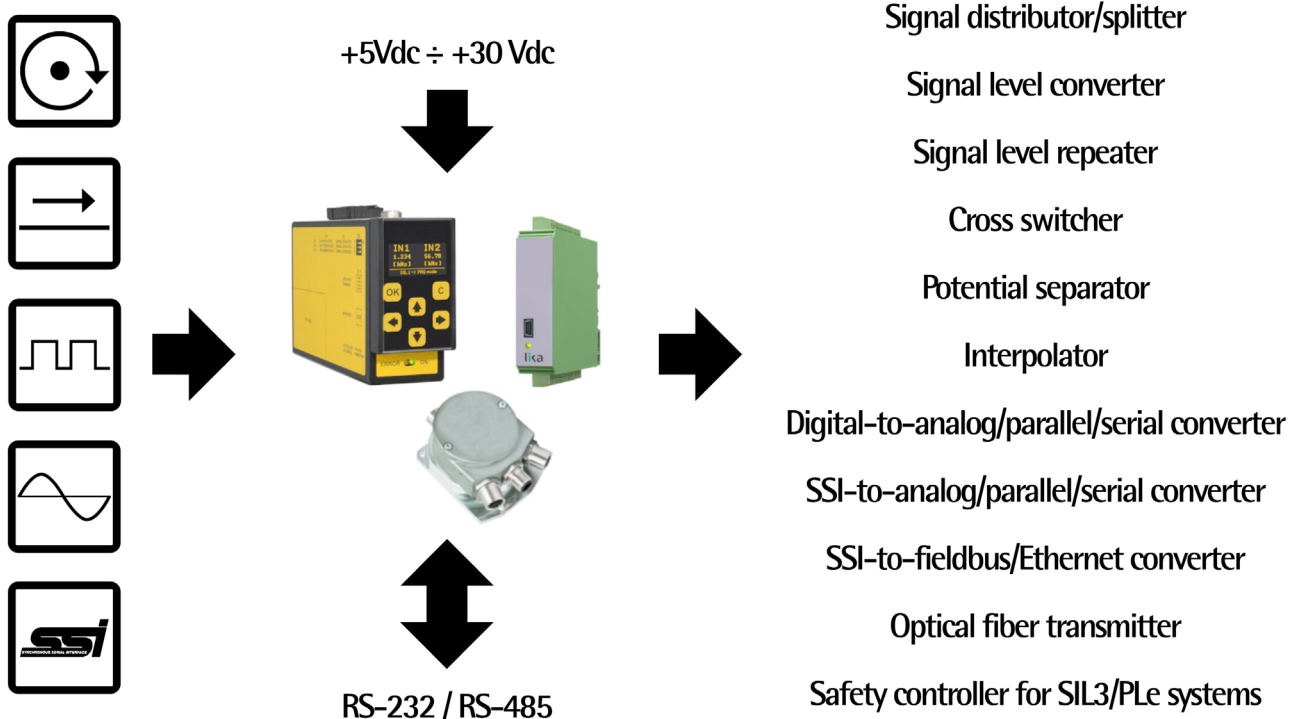


Converters and solutions for industrial integration and communication

Converters are often useful for adjusting the features of the encoder to the ones of the plant it must be installed on. Sometimes they are needful for retrofitting operations.

In many cases they allow also to upgrade and even add new functions to the encoder.

- Varied range of converters, interpolators, amplifiers, splitters, gateways, ...
- Designed for incremental and absolute encoders
- Designed for rotary and linear encoders
- Simple devices with basic functions
- Advanced devices with complete programmability and additional functions



Converters are designed **to convert the signals at input into another type of signals at output** in order to adapt their characteristics to the ones required by the control machine or the data acquisition system.

The conversion operation is often able to upgrade the set of functions provided by the encoder and even to add new ones.

Whether they need to be used in industrial processes where different types of communication and interfaces must coexist in the same system; or they must be installed on existing and maybe obsolete industrial machinery with equipment to be retrofitted for up-to-date connections, signal converters ensure safe data conversion and reliable transmission and communication.

In order to cope with such requirements Lika Electronic has developed a varied range of **converters, interpolators, amplifiers, splitters, gateways, and modules conceived for the integration and communication of both incremental and absolute encoders, no matter whether rotary or linear.** It includes devices with simplified operation and basic functions; and devices with an advanced set of functions, they offer complete programmability either via DIP switches or free software tool (for example they allow to set the input and output signal characteristics, the scaling, the filtering of the signals, etc.); and further add smart options such as TEACH-IN setting, linearization, availability and programmability of control inputs and external outputs, and many others.

Among the devices for incremental encoders are:

- **IF09, IF10, IF20:** devices providing functions for conversion, amplification, and splitting of digital incremental signals (ABO /ABO)
- **IF30:** converter to convert Sine/Cosine signals to ABO /ABO digital signals

- **IF40:** converter to convert ABO /ABO digital signals to analog / serial signals
- **IF42:** converter to convert ABO /ABO digital signals to parallel / serial signals
- **IF60 / IF61:** devices conceived for transmission of incremental signals via optical fiber (for instance for use in hazardous areas and potentially explosive zones as well as in environments affected by extremely strong electromagnetic fields)
- **IFS-10:** safety controller and splitter for integration of digital and Sine/Cosine incremental encoders into systems that require up to SIL3/PLe Functional Safety Level

The range for absolute encoders includes:

- **IF11:** switcher for one SSI Master and two (or more) SSI encoders
- **IF41:** converter to convert SSI signals to analog / serial signals
- **IF42:** converter to convert SSI signals to parallel / serial signals
- **IF55:** converter to convert SSI signals to fieldbus (Profibus, CANopen, DeviceNet) and Ethernet interfaces (Profinet, EtherNet/IP, EtherCAT, POWERLINK, MODBUS TCP)
- **IF62 / IF63:** devices conceived for transmission of SSI signals via optical fiber (for instance for use in hazardous areas and potentially explosive zones as well as in environments affected by extremely strong electromagnetic fields)

For more information on the comprehensive range of interfaces and displays of the **POSICONTROL** product family please [download Lika's new catalog](#).

